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- 2. USSR (600)
- 4. Plant Introduction
- 7. Changes in the life functions of plants as related to their transplantation to new regions.

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9. Monthly Lists of Russian Accessions, Library of Congress, March 1953, Unclassified.

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Fruit - Morphology

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ZALENSKIY, O.V.; SEMIKHATOVA, O.A.; VOZNESENSKIY, V.L.; KONOVALOV, I.H., redaktor; YAKOVLEVA, V.M., redaktor; KAHYAKIN, A.V., redaktor, ABONS, R.A., tekhnicheskiy redaktor.

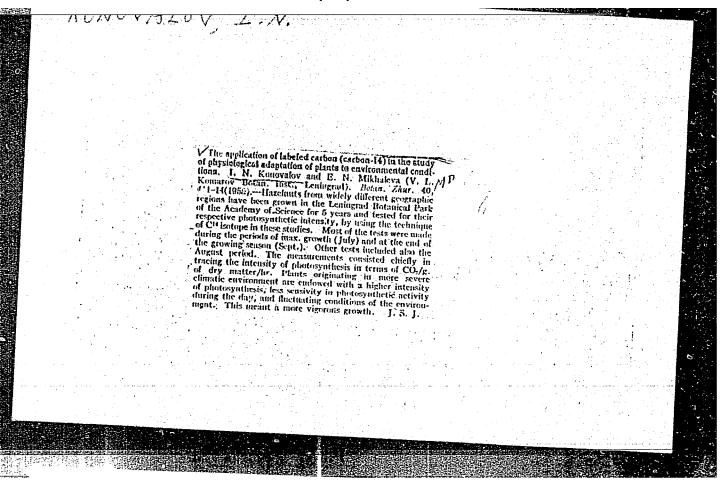
[Using radioactive darbon C¹⁴ in the study of photosynthesis]
Metody premeneniia radioaktovnogo ugleroda C¹⁴ dlia izucheniia
fotosinteza. Moskva, Izd-vo Akademii nauk SSSR, 1955. 88 p.

(Photosynthesis)

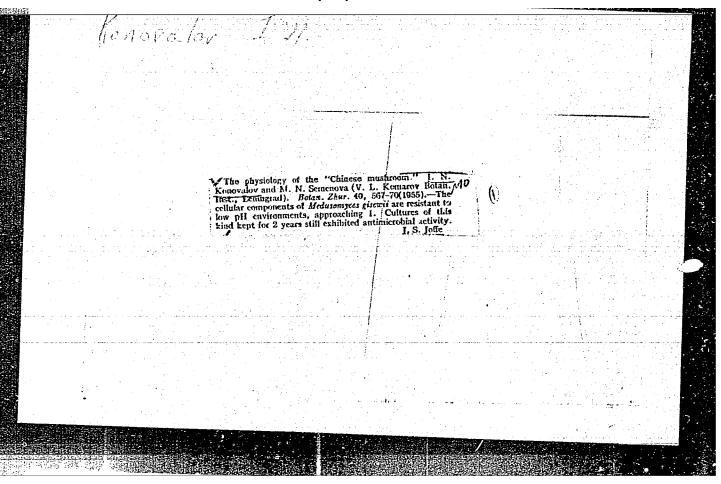
(Carbon—isotopes)

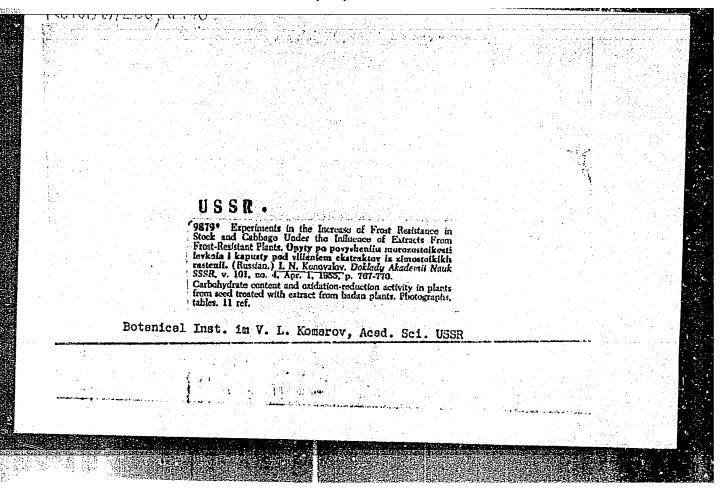
Change in the physiological processes of plants in connection with acclimatization. Trudy Bot.inst.Ser.4 no.10:101-138 '55.

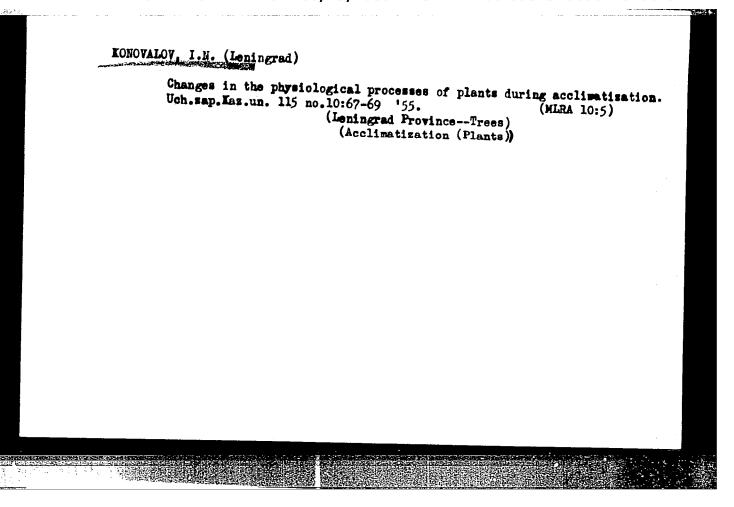
(Acclimatization (Plants))



"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824320019-2







SOKOLOV, V.S., dektor biolegicheskikh nauk, professer, redakter; SOKOLOV, S.Ya., dokter biolegicheskikh nauk, professer, redakter; IL'IN, M.M., dekter biolegicheskikh nauk, professor, redakter; KOKOVALOV, I.H., dektor biolegicheskikh nauk, professor, redakter; SATSIPEROVA, I.F., kandidat farmatsevticheskikh nauk, redakter.

[New useful plants; recommendations of the all-Union conference on the introduction of new useful plants into cultivation] Newyo polesnyo rasteniia; rekemendatsii Vsesoiusnege seveshchaniia pe vvedeniiu nevykh pelesnykh rastenii v kul'turu. Meskva, 1956. 67 p. (MLRA 9:6)

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v 5 / 1/17.

MIKHALEVA, Ye.W.; KONOVALOV, I.W.

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(Photosynthesis) (Acclimatization (Plants)) (Walmut)

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BRILLIANT, V.A.; KONOVALOV, I.N.

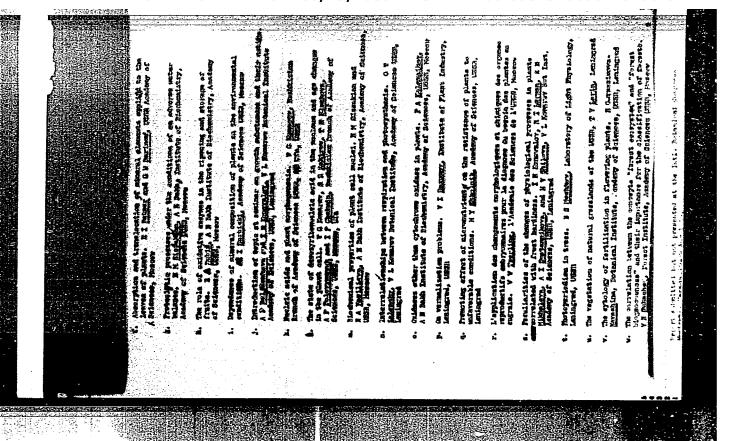
Survey of some results of research in the field of plant physiology and ecology done at the V.L. Komarov Botanical Institute of the Academy of Sciences of the U.S.S.R. Trudy Bot. inst. Ser. 4 no.12: (MIRA 11:7)

(Botanical research)

KONOVALOV, I.H.; MIKHALEVA, Ye.H.; ZAKMAN, L.M.

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(Flants--Frost resistance)



L'VOV, S.D., otv.red. [deceased]; KONOVALOV, I.N., prof., doktor biolog. nauk, otv.red.; VIKHREV, S.D., red.12d-18; ZAMARAYEVA, R.A., tekhn.red.

[Results of and prospects for research in plant development; collection of papers based on data of the 2nd Conference of the All-Union Botanical Society, May 9-15, 1957] Itogi i perspektivy issledovanii rasvitiia rastenii; sbornik rabot po materialam II delegatskogo sezda Vsesoiuznogo botanicheskogo obshchestva 9-15 maia 1957 g. Leningrad, Izd-vo Akad.nauk SSSR, 1959, 222 p.

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AN SSSR (for L'vov).
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(MIBA 13:3)

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(Plant physiology)

KONOVALOV, I.N.; MIKHALEVA, Ye.N.; SHCHEPOT'TEV, F.L.; POBEGAYLO, A.I.

Changes in the physiological processes of plants resulting from their adaptation to new conditions of life, Trudy Bot.inst.Ser. 4 no.13:113-135 '59. (MIRA 13:3) (Walmut) (Acclimatization (Plants))

Accumulation of economically valuable substances in plants under different environmental conditions. Trudy Bot.inst.Ser.6 no.7: 40-47 '59. (MIRA 13:4)

1. Botanicheskiy institut im. V.L.Komarova AH SSSR (BIN), Leningrad. (Plants--Chemical composition)

KONOVALOV, I.N.; LITVINOV, M.A.; ZAKMAN, L.M.

Variations in the nature and physiological characteristics of the tea fungus (Medusemyces gisevii Lindau) due to the conditions of cultivation. Bot. shur. 44 no.3:346-349 Mr '59.

(MIRA 12:7)

1. Botanicheskiy institut im. V.L. Komarova AN SSSR, Leningrad. (Antibiotics) (Yeast) (Acetobacter)

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KONOVALOV, I.H.: SAPOZHNIKOV, D.I.: EYDEL MAN, Z.M.

Effect of Darwin's theory of evolution on the development of research in certain branches of plant physiology. Bot. shur. 44 no.11:1546-1552 N '59. (MIRA 13:4)

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KONOVALOV, I.N.; LERMAN, R.I.; MIKHALEVA, Ye.N.; SHILOVA, N.V.

Characteristics of changes in the physiological processes of plants as related to their adaptation to new environmental conditions
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(MIRA-1443)

(Botany—Ecology)(Plant physiology) (Leningrad Province—Walnut)

KONOVALOV, I.N.; ZHUYKOVA, I.V.; ZINOV'YEV, L.S.

Effect of gibberellic acid on growth characteristics and winter hardiness of woody plants. Bot. zhur. 45 no.12:1721-1731 D *60.

1. Botanicheskiy institut imeni V.L. Komarova Akademii nauk SSSR, Leningrad.

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SHKOL'NIK, M.Ya., red.; KONOVALOV, I.N., red.

"Physiology of irragated wheat" by M.S.Petinov. Reviewed by M.IA.Shkol'nik, I.M.Konovalov. Izw. AN SSSR. Ser. biol. no.4:
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(WHEAT) (PETINOV, N.S.)

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Effect of gibberellic acid on the interruption of dorman arboraceous plants. Bot. zhur. 46 no.12:1781-1786 D'61.

(MIRA 15:1)

1. Botanicheskiy institut imeni V.L. Komarova AN SSSR i Vsecoyuznyy institut sel'skokhozyaystvennoy mikrobiologii Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni Lenina, Leningrad.

(Mibberellic acid)
(Dorman)
(Treos)

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Changes of physiological processes in plants in the course of their introduction as related to their frost resistance. Trudy Bot. inst. Ser. 4 no.15:68-83 '62. (MIRA 15:7) (Plants--Frost resistance) (Plant introduction)

MANOLYLENKO, Kseniya Viktorovna (Ryazanskaya); RAYKOV, B.Ye., prof., zasl. deyatel' nauki, otv. red.; BAKHTEYEV, F.Kh., prof., retsenzent; BOBROV, Ye.G., prof., retsenzent; KANAYEV, I.I., prof., retsenzent; KONOVALOV, I.N., prof., retsenzent; BELKINA, M.A., red. izd-va; AREF'YEVA, G.P., tekhn. red.

[A.F. Batalin, the outstanding Russian botanist of the 19th century]A.F. Batalin, vydaiushchiisia russkii botanik XIX veka. Moskva, Izd-vo Akad. nauk SSSR, 1962. 130 p. (MIRA 16:2) (Batalin, Aleksandr Fedorovich, 1847-1896)

KONOVALOV, I.N.; VASIL'YEV, A.V.; MIKHALEVA, Ye.N.; DZHALAGONIYA, K.T.

Characteristics of changes in the physiological processes of

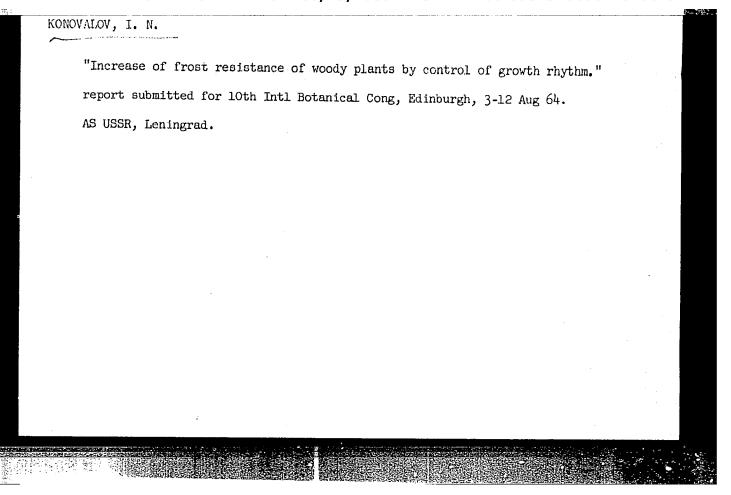
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KORYAKINA, Valentina Fedorovna; KONOVALOV, I.N., otv. red.; VIKHREV, S.D., red. izd-va; SHIRNOVA, A.V., tekhn.red.

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[Physiology of introduced plants.] Fiziologiia introdutsiruemykh rastenii. Moskva, Izd-vo Akad. nauk SSSR, 1963. 61 p. (Komarovs-kie chteniia no.16). (MIRA 17:2)



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Study of the combined effect of gibberellin, heteroauxin and mineral nutrition on woody plants. Bot.zhur. 49 no.11:1600-1608 N *64.

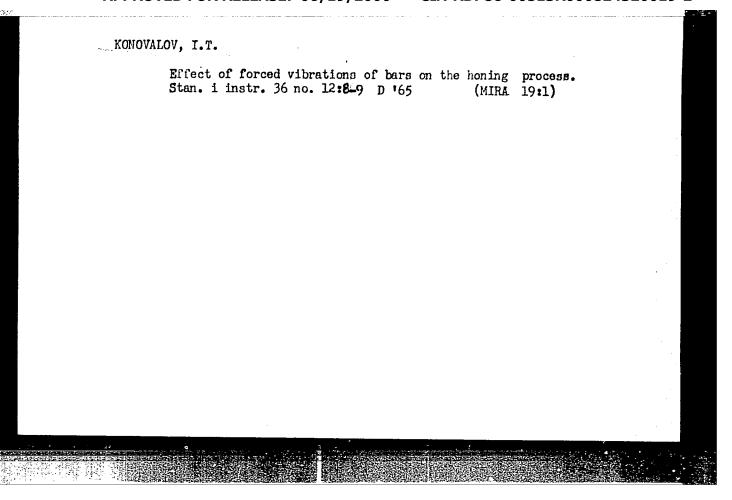
1. Botanicheskiy institut imeni V.L. Komarova AN SSSR, Leningrad.

RADCHENKO, S.I.; KONOVALOV, I.N.; POZDOVA, I.M.

Cold resistance of corn in the Karelian Isthmus. Trudy Bot.inst. Ser.4 no.17:53-72 *64. (MIRA 18:1)

MANOYLENKO, Kseniya Viktorovna; BAKHTEYEV, F.Kh., prof.,
retsenzent; KANAYEV, I.I., prof., retsenzent; KONOVALOV,
I.N., prof., retsenzent; YAKOVLEV, M.S., prof.,
retsenzent; RAYKOV, B.Ye., zasl. deyatel' nauki prof., otv.
red.

Nikolai Ivanovich Zheleznov. Moskva, Nauka, 1965. 203 p.
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KUZNETSOV, S.I.; SEREBRENNIKOV, O.V.; DEREVYANKIN, V.A.; VOLKOVA, P.I.;
PAVLOV, F.N.; XEVTYUTOV, A.A.; CHEMODANOV, V.S.; STOLYAR, B.A.;
KONOVALOV, I.V.; LIVER, V.B.; MIYCHENKO, V.S.; SMIRNOV, B.A.

"Production of alumina" by A.I. Lainer. Reviewed by S.I.
Kuznetsov and others. TSvet. met. 34 no.11:85-86 N '61.

(MIRA 14:11)

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Serebrennikov, Derevyankin). 2. Ural'skiy filial AN SSGR
(for Volkova, Pavlov). 3. Ural'skiy alyuminiyevyy zavod (for
Yevtyutov, Chemodanov, Stolyar). 4. Bogoslovskiy alyuminiyevyy
zavod (for Konovalov, Liver, Miychenko). 5. Sverdlovskiy
Sovnarkhoz (for Smirnov).

(Alumina)
(Lainer, A.I.)

KONOVALOV, I.V.

Genesis of Yeravninsk iron ore deposits. Geol. i geofiz. no.11:60-68 164. (MIRA 18:4)

1. Institut zemnoy kory Sibirskogo otdeleniya AN SSSR, Irkutsk.

KONOVALOV, K.

All schoolchildren get breakfast and lunch in the school dining room. Obahchestv. pit. no.6:31 Je '63. (MIRA 16:12)

1. Direktor tresta stolovykh Knybyshevskogo rayona Leningrada.

 Signal light networks with semiautomatic block systems should be standardized. Avtom., telem.i sviaz 6 no.4:29.30 Ap 62: (MIRA 15:4)
1. Lengiprotrans. (Railroads—Signaling)

Selection of a standard semiautomatic block system network.

Avtom., telem. i sviaz' 8 no.11:16-19 N '64.

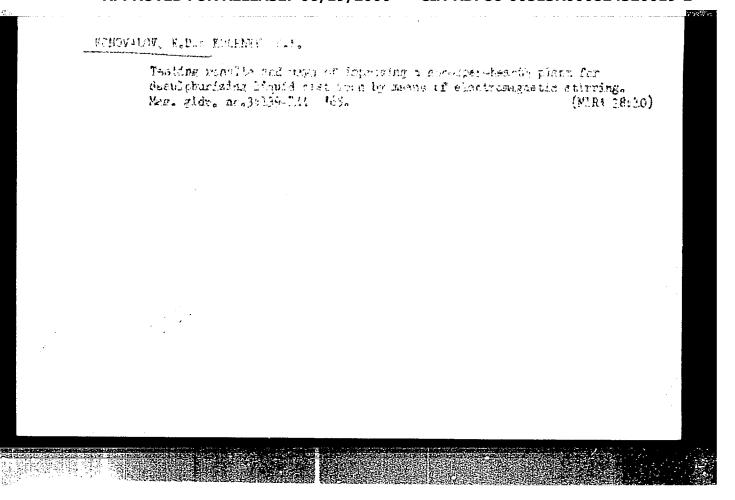
(MIR. 17:12)

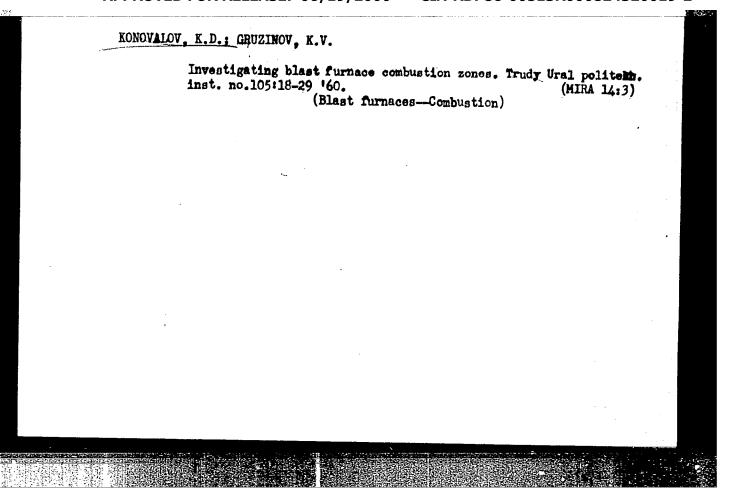
1. Rukovoditel' gruppy Loningradskogo gosudarstvennogo proyektneizyskatel'skogo instituta Gosudarstvennogo proizvodstvennogo komiteta po transportnomu stroitel'stvu SSSR.

Design workers need good handbooks. Avtom., telem. i sviaz' 7 no.4:41 Ap 163. (MIRA 16:4)

1. Lengiprotrans.

(Railroads-Signaling)





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stirring (15)	tests and approaches to the optim llation for the removal of sulphu	r from cast iron by elec	o the trical
SOURCE: Magnitnaya	gidrodinamika, no. 3, 1965, 139	144	
TOPIC TAGS: metal magnetic chemical r	refining, cast iron refining, cas efining, magnetohydrodynamic stir	t iron desulphurization, ring	electro-
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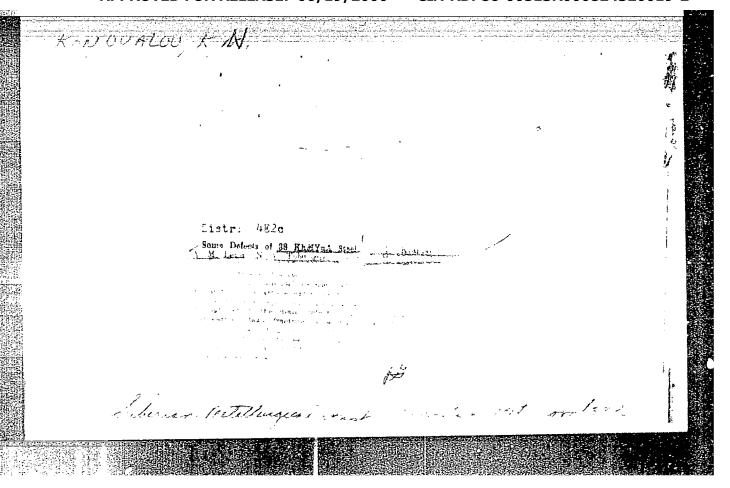
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2260 Konovalov, K.M.

DANILOV, P.M.; KONOVALOV, K.H.; TEDER, L.I.; CHUDAYEVICH, M.G.

Improvements in the technology of saelting and pouring transformer steels. Fig.met.i metallowed. 1 no.1:139-142 '55. (MLRA 9:3)

1. Eusnetskiy metallurgicheskiy kombinat imeni Stalina. (Sheet steel--Metallurgy)



KONOVALOV, K.N. Heating ingot deadheads with gas, Biul. TSNIIGHM no.16:48-49 '57. (MIRA 11:5) 1. Kuznetskiy metallurgicheskiy kombinat. (Steel castings)

TOISTOGUZOV, N. V., KONOVALOV, K. N., GLAZOV, A. N., TEDER, L. I., DANILOV, P. M. SHIRINKIN, E. N., and GUDAYEVICH, M. G.

"Vacuum KTreatment of the MX 15-Steel and Commercial Experience of the Vacuum Transformer Treatment."

paper presented at Second Symposium on the Application of Vacuum Metallurgy.

Moscow 1-6 Jul 58

133-58-4-9/40

AUTHORS: Konovalov, K. N., Korneva, N. K., Danilov, P. M.,

Teder, L. I., Drobyazko, T. T. and Shtepa, A.S., Engineers.

TITLE: Gaseous Heating of Ingot Heads (Gazovyy obogrev

pribyl'noy chasti slitka)

PERIODICAL: Stal', 1958, Nr 4, pp 311-316 (USSR)

ABSTRACT: The use of an oxygen-coke-oven gas mixture for heating the hot tops of ingots weighing 5.6 to 6.7 tons developed on the Kuznetsk Works is described. The following optimal parameters for injector burner (Fig.1) were established: the diameter of the oxygen nozzle - 5 mm; the diameter of the mixing chamber - 16 to 18 mm; the diameter of the outlet 17 mm widening to 21 mm, the diameter of the tube for the gaseous mixture 1 1/2". Oxygen pressure 4-7 atm, coke oven gas pressure 200-350 mm H₂O. Consumption of gas 40-70 m²/hr and of oxygen 15-30 m³/hr. Experiments were carried out on 6-ton ingots of open hearth steel using the usual and experimental hot tops (of a smaller cross section but better insulated). Floating hot tops (Fig.2) were also tested. The duration of heating varied from 60 to 90 min, depending on the Card 1/3 level of metal. The influence of gaseous heating on the

Gaseous Heating of Ingot Heads

133-58-4-9/40

quality of steel was studied on transverse macro-templets cut out from the upper part of ingots after crop end (Fig. 3). Chemical analysis indicated oxidation of aluminium, manganese and silicon (Fig.4). When bunkerite was added and carrying out heating under a protective layer of slag (by adding chamotte, furnace slag etc.) with a small addition of deoxidants, the oxidation of elements was stopped. The experimental results are shown in the Table. It was established that gaseous heating is possible, the quality of metal did not deteriorate and the yield of good semis increased by 5-7% due to a decrease in crop head from 17-18% to 10-11%. Similar experiments were carried out with stainless steel 1Kh18N9T. The results obtained indicated that the heating conditions (the ratio of the consumption of gas and oxygen and heating intensity) have a deciding influence on the oxidation of titanium and the quality of the macrostructure of steel. The following optimal conditions were established:

Heating periods.

Card 2/3 duration of heating period, min. 30-40 30-40 20-30 oxygen pressure, atm 6 5 4-3

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KONOVALOV, K.N.; PASHCHENKO, V.Ye.

Technology of smelting and pouring cold-rolled transformer

steel. Metallurg 7 no.7:17-20 Jl '62. (MIRA 15:7)

1. Kuznetskiy metallurgicheskiy kombinat.
(Steel ingots—Testing)
(Sheet steel—Magnetic properties)

ACCESSION NR: AP4019474

5/0133/64/000/003/0229/0231

AUTHORS: Konovalov, K. N. (Engineer); Glazov, A. N. (Engineer); Danilov, P. M. (Engineer); Pashchenko, V. Ye. (Engineer)

TITLE: The effect of ingot mold lubrication on the surface quality of steel 1Kh18N9T

SOURCE: Stal', no. 3, 1964, 229-231

TOPIC TAGS: steel, 1Kh18N9T stainless steel, steel melting, steel pouring, ingot mold lubricant, oxidizing lubricant, reducing lubricant, evaporative lubricant, refractory powder, slag powder, naphthalene, anthracene, petrolatum, lakoil lubricant

ABSTRACT: The effect of ingot mold lubrication on the quality of the surface of stainless steel ingots (IKhl&N9T) was studied experimentally. The casts were produced by both top- and bottom-pouring methods. The results showed that the addition of oxidizing or reducing powders to the usual lubricant did not eliminate the formation of crust and of pitted surface, while evaporative lubricant applied to cool molds decreased the number of pits but increased various defects associated

Card 1/2

ACCESSION NR: APLO19474

with the formation of crust. It was also determined that the absence of lubricant or the use of the refractory and slag powders as substitutes for lubricants increased the number of scabs on the ingot surface, and that the presence of moisture or of organic matter in such powders increased the degree of surface pitting. Adding dry borax to the "lakoil" lubricant improved somewhat the surface quality, whereas using naphthalene, anthracene, and petrolatum as lubricants created reducing conditions during steel pouring and resulted in a uniform "lubricating" layer of scot on the mold walls and produced a greatly improved general appearance of the ingot surface. Orig. art. has: 3 figures.

ASSOCIATION: Kuznetskiy metallurgicheskiy kombinat (Kuznetsk Metallurgical Combine)

SUBMITTED: 00

DATE ACQ: 27Mar64

ENCL: 00

SUB CODE: ML

NO REF SOV: 003

OTHER: OCO

Card 2/2

KONOVALOV, F.M., insh.

Some causes of surface defects in stainless ateal. Sigl' 25 no.2:153-157 F '65. (MIRA 18:3)

1. Kucnetskiy metallurgicheskiy kombinat.

GLAZOV, A.N.; KONOVALOV, K.N.; MONASTYRSKIY, V.Ya.; PASHCHENKO, V.Ye.

Improving the quality of ingots of ShKx15 ball bearing steel.

Metallurg 10 no.8:20-21 Ag *65.

(MIRA 18:8)

1. Kuznetskiy metallurgicheskiy kombinat.

MONASTYRSKIY, V.Ya.; DUBROVIN, A.K.; LASKARONSKIY, E.N.; GLAZOV, A.N.;
DANILOV, P.M.; KONOVALOV, K.N.; MIKHEYEV, V.G.; TEDER, L.I.

Improving the technology of smelting, pouring, and heating
0 ~ 2Khl3 steel ingots. Metallurg 10 no.12:14-16 D '65.

(MIRA 18:12)

1. Kuznetskiy metallurgicheskiy kombinat.

ZHURIKOV, V.N.; IL'IN, M.A.; KRASAVIN, N.N.; PISKUNOV, V.T.;
RUSINOV, I.V.; SUVOROVA, L.I.; TSIKOTO, I.A.;
KONOVALOV, L., red.; MUKHIN, Yu., tekhn. red.

[Reader in agricultural economics] Kniga dlia chteniia po ekonomike sel'skogo khoziaistva. Moskva, Politizdat, 1963. 287 p. (MIRA 17:1)

ALIPEROVICH, Yuriy Izrailevich, zburnalist; NOMOVALOV, L., red.

[In the fields of the future] Na poliskh bodushchego. Moskva, Politizdat, 1964. 174 p. (MIRA 1812)

DUKHNEVICH, Vadim Ignat'yevich; KONOVALOV, Leopol'd Anatol'yevich;
SKOROKHODOV, A.A., retsenzent; RADUKIN, V.P., red.; SYRCHINA,
M.M., red. isd-i; MAL'KOVA, N.T., tekhm. red.

[Steel costs]Sebestoimost' stali. Sverdlovsk, Metallurgizdat, 1962. 57 p. (MIRA 15:7)

(Steel—Costs)

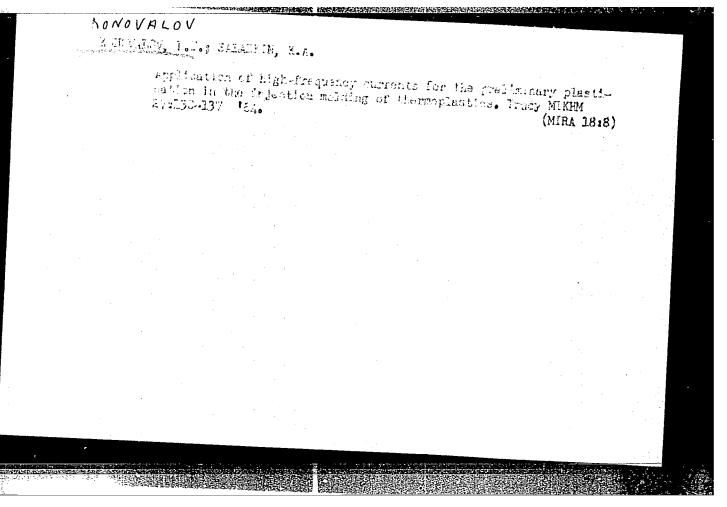
[Analyzing the potentials of the cost reduction of electric steel] Analiz rezervov snizhenia sebestoimosti elektrostali. Moskva, Metallurgiia, 1965.

113 p. (NIRA 18:7)

KONOVALOV, L.A.; GLUVSHTEYN, I.V., red.; KOVALEVSKIY, M.A., red. izd-va; EN'YEKOVA, G.M., tekhn. red.

[Business accounting is a means of mobilizing internal potentials] Khoziaistvennyi raschet - uslovie mobilizatsii vnutrennikh rezervov. Moskva, Metallurgizdat, 1963. 25 p. (MIRA 17:3)

and the same of th	For themselves. Okhr. truda i sots. strakh. 5 no.5:10-11 My '62. (MIRA 15:5))
	 Tekhnicheskiy inspektor Novosibirskogo oblsovprofa. (Berdsk-Radio industry-Hygienic aspects) 	
		1 11



MAT'TSEV, M.V.; KONOVALOV, L.I.

Possibilities for increasing brick production. Stroi. mat. 11 no.2:26-27 F '65. (MIRA 18:3)

1. Glavnyy inzh. Cheremushkinskogo keramicheskogo zavoda (for Mal'tsev). 2. Nachal'nik tekhnicheskogo otdela Cheremushkingskogo keramicheskogo zavoda (for Konovalov).

ZATTREVA, L.M.; ILIVARHARIO, V.S.; KORAHIV, M.T. DOMONIM, L.M.;

Physicochemical properties of the trystal hydrates of rare-earth sulfates of the terbium autogroup. Zourassorg. Mans. 10 no. 8:1761.1770 Ag '65.

1. Submitted May 5, 1964.

(MIRA 19:1)

KONOVALOV L. N.

USSR/Cultivated Plants. Cereals:

M

Abs Jour: Ref Zhur-Biol., No 17, 1958, 77575.

Author : Terent'yev, V.M.; Stasenko, N.N.; Konovalov, L.N.

Inst : Institute of Diology AS DSSR.

Title : On Several Features of Growth and Development of

Grain Crops on Peat Soil.

Orig Pub: Hyul. In-ta biol. AN BSSR, vyp. 2, 1956 (1957),

94-99.

Abstract: Observations were conducted for the development

of plants of Kitchener wheat on peat and mineral soils. On the peat soil, tillering and shooting up was more intensive, but in the fruit-bearing organs, less dry substance accumulated than on the mineral soil, in connection with which the

Card : 1/2

KRASKO, Lev Maksimovich; KONOVALOV, L., red.; TROYANOVSKAZA, N., tekhn. red.

[Advenced practices should be known to each agricultural worker] Peredovoi opyt - kazhdomu rabotniku.sel'akogo khoziaistva. Moskva, Gos izd-vo polit. lit-ry, 1961. 46 p.

(MRRA 15:4)

1. Sotrudnik gazety "Sel'akaya zhizm" (for Krasko).

(Agriculture)

38596

s/081/62/000/010/082/085 B166/B144

AUTHOR:

Konovalov, L. I.

TITLE:

Heating rubbers in a high-frequency electric field

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 10, 1962, 659, abstract

· 10P427 (Tr. Mosk. in-ta khim. mashinostr., v. 21, 1960,

125-130)

TEXT: The process of raising the temperature of polychloroprene and styrene-butadiene rubbers (SBR) to 100°C in an alternating electric field at a frequency of 10 Mc/s (for polychloroprene) and 20-25 Mc/s (for SBR), with a field strength of 300 to 350 v/mm and a h.f. oscillator efficiency of 31% was studied. The temperature was measured by a needle-type thermocouple with the current switched off. This method gives more uniform and rapid heating than the use of hot air, (150°C). Heating a plate of SBR 60 to 100 mm thick takes 2 min; heating a bale of polychloroprene rubber measuring 150.200.60 mm takes only 40 to 45 sec, at a specific electric power consumption of 0.17 kwh/kg and 0.11 kwh/kg respectively. The industrial use of high-frequency currents for drying and decrystallizing Card 1/2

40969 s/081/62/000/016/040/043

B171/B186

15.9300

AUTHORS: Rozanov, S. P., Konovalov, L. I.

TITLE: Investigation on electrophysical properties of rubbers

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 16, 1962, 556, abstract
167341 (Tr. Mosk. in-ta khim. mashinostr., v. 21, 1960,
107 - 124)

TEXT: The dielectric constant (ϵ), the angle of dielectric losses (tan δ) and the coefficient of dielectric losses in CKC-30 (SKS-30), CKC-30A (SKS-30A) and in chloroprene rubber (CP) were investigated with the help of an universal Q-meter in the frequency range of 500 kc/sec.-25 mc/sec, at 20 - 150°C. For SKS-30 and SKS-30A, the experimentally obtained value of ϵ was ~2.5 (calculated value 2.27) and changed only little with frequency (ω). tan δ increases insignificantly with the increase of ω . Both ϵ and tan δ remain constant when the temperature changes but they increase with the increase in plasticity of rubber. For CP, ϵ decreases and tan δ increases with the increase of ω , ϵ increases and tan δ decreases as the plasticization of rubber progresses. With the progress of sulfur-

Card 1/2

KOMOVALOV, L. P.; RAVINGKIY, A. M.; KARPINGKIY, V. H.; Engs.

Steam Boilers

Feeding scheme of boilers operating without a water caretaker, Elek. sta. 24, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Unclassified.

Water level regulater in condensers and other vessels. Emergetik 4 no.9:
11-12 S '56. (Feed-water regulation) (MIRA 9:10)

MONOVALOV, L.P., inghener.

Operation of automatic controllers of combustion in boilers. Energetik 4 no.10:6-7 0 '56. (MLRA 9:11)

(Combustion) (Automatic control)

AID P - 4370

Subject

: USSR/Heat Engineering

Pub. 110-a - 15/19 Card 1/1

: Konovalov, L. P., Eng. Dnepr Power System Author

Self-starting of a stand-by turbopump Title

Teploenergetika 3 4, 57, Ap 1956 Periodical:

Abstract

The article gives a description of a self-starting turbopump carrying water to the boiler drum installed at one of the power plants in the south. The installation is controlled by the feedwater pressure. One diagram.

Institution: None

KOWOVALOV, LIK

Submitted : No date

KONOVALOV, L.P., insh.

Steam pressure regulator for turbine end packing. Emergetik 5 no.10:
8-9 0 *57. (MIRA 10:12)

(Turbines)

AUTHOR:

Konovalov, L.P., Engineer

SOV/91-58-3-5/28

TITLE:

The Automatic Loading of Grinders with Coal (Avtomaticheskaya zagruzka mel'nits uglëm) Exchange of Experience (Obmen

opytom)

PERIODICAL:

Energetik, 1958, Nr 3, pp 8-9 (USSR)

ABSTRACT:

The author reports that application of an ER-Sh electronic regulator for controlling the coal load in power-plant mills is a success. The regulator, combined with heat laboratory, controls the automatic unit as well as ._ature measurements (SNATI). The regulator conjusted to control both mills with or without separator and intermediate hopper. A diagram showing the load regulation of the coal grinder without separator and intermediate hopper is given. The regulator was constructed on the basis of the electronic regulator ER-III and can be substituted by other control units (electromechanical, pneumatic, hydraulic, etc.). The described electronic regulator was installed at the Kennedi ball mills of 5 ton/hour capacity. The mills are working without se-

Card 1/2

SOV/91-58-3-5/28

The Automatic Loading of Grinders with Coal. Exchange of Experience.

parators and intermediate hoppers. Every boiler has 2 mills. The maximum productivity of single boilers is 70 ton/hour. Anthracite dust (ASh) was used as fuel. There is 1 diagram.

Card 2/2

strength is proposed for alloy and caroon structural steels.

Card 1/2

UDC: 621.81-19

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824320019

ACC NR: AP7003841

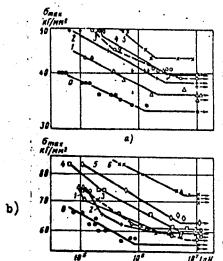


Fig. 1. Fatigue curves: a - 45 steel; b - 40KhN steel for various values of $\Delta \sigma/\sigma_{-1}$.

Curves 0 - tests with constant stress

Orig. art. has: 4 formulas, 7 graphs, and 2 tables.

SUB CODE: 11, 20/ SUBM DATE: none/ ORIG REF: 009
Cord 2/2

YAROSLAVSKIY, N.G.; KONOVALOV, L.V.

Long-wave absorption spectra of complex compounds of aniline with metals. Dokl. AN SSSR 162 no.1:144-146, My *65. (MIRA 18:5)

1. Submitted November 9, 1964.

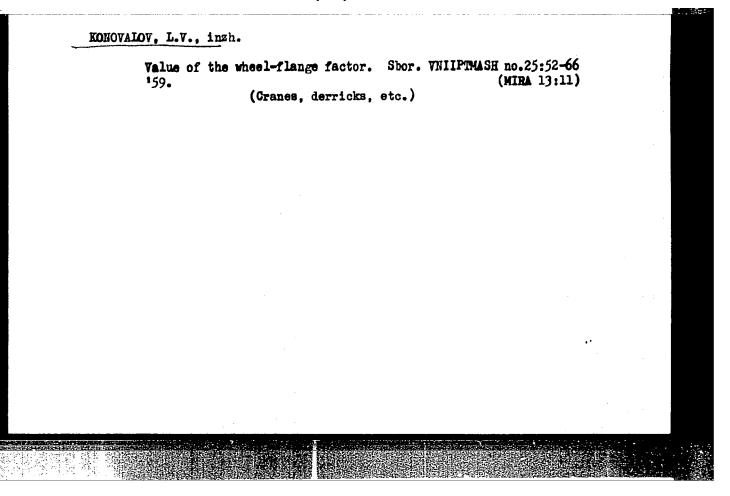
Relative duration of the operating period as a characteristic of the load graph of a crane gear. Vest.mash. 41 no.7:33-35 Jl. *61. (MIRA 14:6)

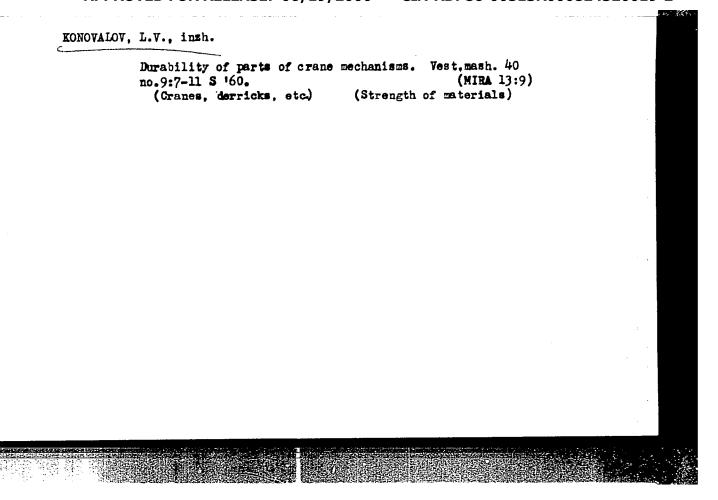
(Cranes, derricks, etc.)

KONOVALOV, L.V., inzh.; SPITSYNA, I.O., kand.tekhn.nauk; FREYDBERG, S.I., inzh.

IAfe of crane parts. Sbor. WHIPTMASH no.25:3-16 159
(MIRA 13:11)

(Cranes, derricks, etc.)





28171 S/145/61/000/005/005/009 D221/D306

10.7400

AUTHORS:

Shuvalov, S.A., Candidate of Technical Sciences, and

Konovalov, L.V., Engineer

TITLE:

Consideration of variable loads when calculating

fatugue resistance in bending

PERIODICAL:

Izvestiya vysshykh uchbenykh zavedeniy. Mashino-

stroyeniye, no. 5, 1961, 51 - 59

TEXT: The authors suggest the use of a unified method of fatigue tests for components working with variable stresses in order to assess the effect of metal training by various loads. Experiments carried out by BHNNNTMAW (VNIIPTMASh) and UHNN YM (TSNII ChM) employed variable symmetrical loads in bending on a MBN -12000 (MVP-12000) program controlled machine. Specimens were plain round, without stress concentrations. The amplitude of stresses during each test was continuously varied by a cam mechanism following in section AO (Fig. 1) the step function of

Card 1/8

28171 S/145/61/000/005/005/009 D221/D306

Consideration of variable loads ...

$$n_{l} = n_{eff} \left(\frac{M_{l} - M_{min}}{M_{max} - M_{min}} \right)^{q - \frac{1}{4}} \tag{1}$$

where M_1 , M_{max} , M_{min} (σ_1 , σ_{max} , σ_{min}) are the current, maximum and minimum amplitudes of bending moment; n_c - number of half cycles of load per period of stress amplitude variation (per one turn of cam); $\alpha = \frac{1}{4}$ is the exponent that characterizes the changes of stress amplitudes within the range σ_{max} ; σ_{min} (curves 1 and 2 in Fig. 1). The selected law of variation corresponds to cyclic loads of cranes. The total life of specimen N, is determined by $N = n_c \lambda$, where λ is the number of cam turns until the destruction of the specimen. A graph is plotted for steel 40 on the basis of experimental data. The analysis of curves indicates that an increase between the maximum and minimum levels of stresses shifts the fatigue line to the right. There is a simultaneous level increase in the maximum stressing. With adequate accumulation of results due to Card 2/8

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Consideration of variable loads ...

CIA-RDP86-00513R000824320019-S/145/61/000/005/005/009 D221/D306

similar tests, it will be possible to provide empirical relationships between the life duration and load curves which would form a basis for calculations of a specified service term. At present, the calculation of components subject to variable stresses is being carried out in respect to the equivalent load or limit stress. In the case of the intermittent law of fluctuations in the stress amplitude

$$\lambda \int \frac{dn_1}{N_4} = a \tag{4}$$

is employed as stated by S.V. Serensen and L.A. Kozlov (Ref. 4: Vestnik mashinostroyeniya, no. 12, 1953). In the above equation, $\mathrm{dn}_{\dot{1}}$ is an infinitely small number of cycles of loads during the intermediate stressing of $\sigma_{\dot{1}}$, $\mathrm{N}_{\dot{1}}$ is the number of cycles prior to destruction with a stress of $\sigma_{\dot{1}}$ on the endurance curve and in the case of a constant amplitude of stresses. Coefficient a is a cha-

Card 3/8

Consideration of variable loads ...

\$/145/61/000/005/005/009 D221/D306

racteristic resistance to overloads of the material, λ is the number of fluctuation periods of the stress amplitude during the life. Substituting the differential dn, from Eq. (1) into

$$N = n_{c} \bar{\lambda}, \qquad (2)$$

as well as N_i from the expression of the endurance curve, $N_i o_i^m = N_0 o_{-1}^m$, the author deduce

$$\frac{N}{4\sigma_{-1}^{m} N_{0} (\sigma_{\max} - \sigma_{\min})^{\frac{1}{4}}} \int_{\sigma_{\min}}^{\sigma_{\max}} \sigma_{l}^{m} (\sigma_{l} - \sigma_{\min})^{-\frac{3}{4}} d\sigma_{l} = a,$$
 (5)

where σ_{-1} is the continuous limit of endurance in the case of a constant amplitude of stresses with a symmetrical cylce; N_o is the number of cycles corresponding to the bend of the endurance curve; N is the number of cycles of destruction given by Eq. (2); m is Card 4/8

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S/145/61/000/005/005/009 D221/D306

Consideration of variable loads ...

the cotangent of angle of the inclination between the endurance curve and the horizontal axis. A clearer notion on the "relief" of surface which is formed by values of a is obtained from a special graph, shown in Fig. 8. This is polotted for steel CT 45 (ST 45), and for different combinations of $\sigma_{\rm max}/\sigma_{-1}$ and $\sigma_{\rm min}/\sigma_{-1}$. Analysis of data indicates that the characteristic of a decreases with the rise of ultimate strength of steel. The relationship is involved. Simplification in calculations is achieved by assuming a = 1. This results in 4 % errors for "soft" steels and 5 % for hard materials. It appears that in the case of variable amplitude of stresses, the continuous limit of endurance rises with respect to the maximum stress, or a sharp bend of fatigue curves takes place when a greater number of load cycles will be required for the destruction of the component. Consequently, prior to the accumulation of an adequate amount of experimental data, it is necessary to determine the equivalent number of cycles by assuming a = 1, and excluding $\frac{\sigma_{\min}}{\sigma}$ <0.3 from calculations. A numerical example is given Mmax Card 5/8

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"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000824320019-2

s/032/61/027/004/012/028 B103/B201

AUTHOR:

Konovalov. L. V.

TITLE:

Test method of the fatigue bending strength of steel to determine the effect of drawing under stress and of

periodic recovery

PERIODICAL:

Zavodskaya laboratoriya, v. 27, no. 4, 1961, 441-443

TEXT: The author describes the determination methods for drawing under stress and for periodic standstill upon the fatigue bending stress of steel, and presents the results obtained. He used smooth, round steel samples (type 45) tested in a modernized fatigue-testing machine (TsNIITMASh construction type y -20 (U-20)) adapted for automatic starting and stopping. Two "cantilever samples" (konsol'naya proba) at a time could be tested by it. The problem has been so far insufficiently dealt with in the literature. The following facilities were added to the machine: brake 1, counter of stress cycles 2, and two limit switches 3 (Fig. 2). Drive, sample fixing facility 4, stress device 5 were left unchanged. To achieve the automation of the testing course, electric

Card 1/7

S/032/61/027/004/012/028 B103/B201

Test method of the fatigue ...

motor 6 and the coil of the brake magnet were connected to the drumlike control system which featured a counter for the number of switchings (Fig. 3). The respective limit switch stopped the machine whenever a sample broke. The counter of stress cycles 2 and that of switchings made it possible to control the fulfillment of the present test program. Counter 2 (Fig. 2) was necessary since due to frequent starting and stopping discrepancy resulted between the rpm of the motor and that of the spindles 7. The switch-in counter was a pulse counter recording also the number of current pulses fed to the motor. It received the pulses via the control system. The joint action of the two counters makes it possible to rigorously observe the required interrelations between switchin duration ("work of sample") and standstill ("recovery of sample"), in that a chosen number of switchings per minute is ensured. Tests have been conducted under uninterrupted operation and by two programs "work standstill". The value ED of the relative switch-in duration and the number of switchings have been in every single program chosen in such a way as to correspond to the measured characteristics of lifting mechanisms in ordinary traveling cranes.

Card 2/7

S/032/61/027/004/012/028 B103/B201

Test method of the fatigue ...

 $ED = \frac{T_{mach}}{T_{Z}} \circ 100, \quad \text{where T_{mach} denotes the working time of the mechanism,} \\ \text{and T_{Z} is the cycle duration. The fatigue curves of Fig. 4 are based on the author's results. The results have been interpreted by making use of A. K. Mitropol'skiy's and M. Ya. Shashin's methods, and resulting data have served as the basis for the author's table. The main divergences <math display="inline">\sigma_{X}$ and σ_{Y} have been calculated, and the following correlation equation has been derived: $X_{Y} = \overline{X} + r_{1/1} \cdot \frac{\sigma_{X}}{\sigma_{Y}} \left(Y_{1} - \overline{Y} \right), \quad \text{where \overline{X} denotes the} \\ \\$

been derived: $X_Y = X + r_1/1$ σ_Y σ_Y σ_Y where X denotes the average probable value of the log of cyclic durability, and Y_i is a random value of the logarithm of stress. Then, (in logarithmic coordinates)

 $r_{1/1}$, $\frac{\sigma_{X}}{\sigma_{Y}}$ = m, i.e., equal to the exponent of the equation of the fatigue

curve $\sigma^m \cdot Z = const.$ Both this equation and the correlation equations derived by the author are valid only for stresses below the yield point.

Card 3/7

S/032/61/027/004/012/028 B103/B201

Test method of the fatigue ...

The author summarizes his findings as follows: (1) His fatigue test methods permit the evaluation of the effect of drawing under stress as well as the periodic standstill upon the fatigue bending strength of steel. (2) His test programs have yielded equal values for the long-time fatigue limit. The value of the exponent m in the fatigue curve remained practically constant. (3) The short part of the fatigue curve is shifted to the left with growing number of switchings per minute. This has to be taken into account when calculating machine parts for fatigue. There are 4 figures, 1 table, and 5 Soviet-bloc references.

ASSOCIATION:

Vsesoyuznyy nauchno-issledovatel'akiy institut ped"yemnotransportnogo mashinostroyeniya (All-Union Scientific Research Institute of Lifting and Transportation Machine Building)

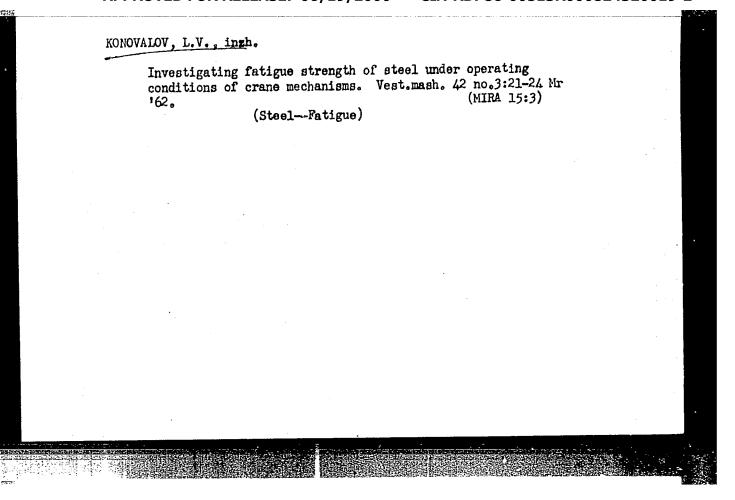
Card 4/7

SHESAREV, G.A.; KONCVALOV, L.V.

Standardization of crane mechanisms and regulation of their operating conditions. Standardizatsiia 25 no.8:15-19 ag '61.

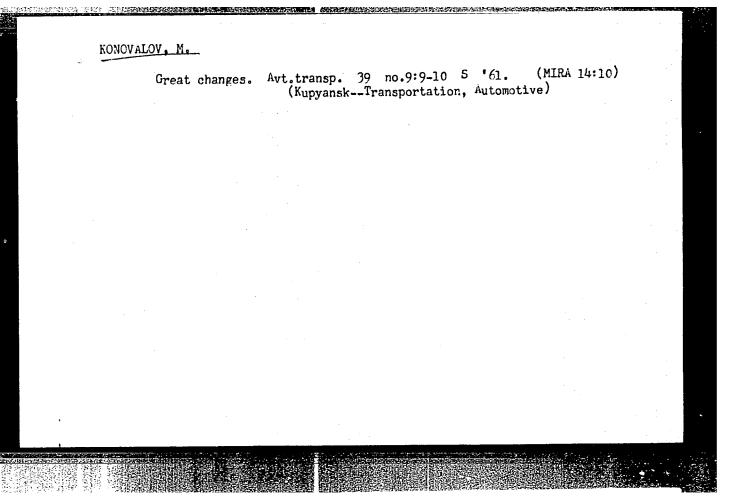
(Granes, derricks, etc.--Standards)

(Granes, derricks, etc.--Standards)

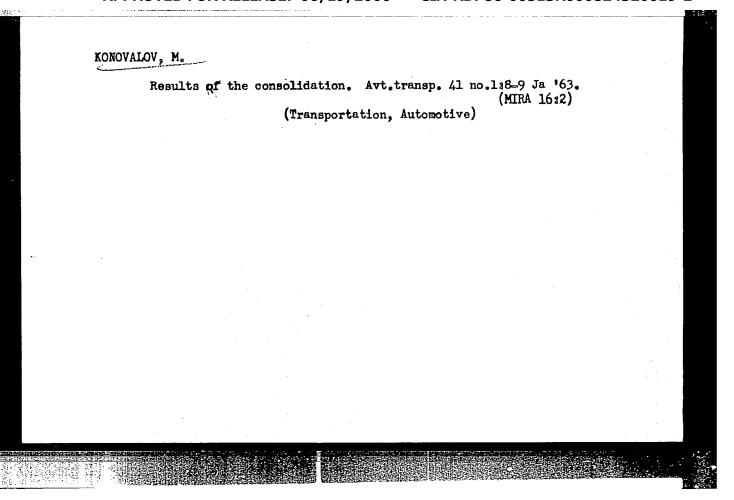


TIMOSHUK, L.T.; KULIKOV, A.P.; KONOVALOV, L.V.; SHUVALOV, S.A.

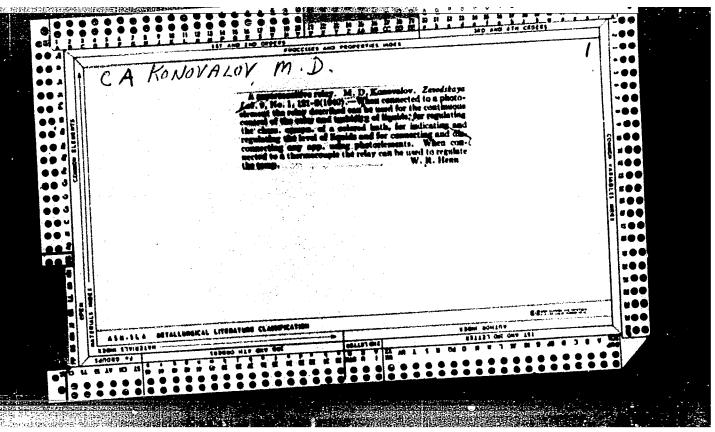
Parameter "a" as characteristic of metal resistance to overloading.
Sbor. trud. TSNI1CHM no.24:349-369 '62. (MIRA 15:6)
(Steel--Testing) (Strains and stresses)



Stand for dismantling and assembling of the front axle of the GAZ-51 motortruck. Avt.transp. 40 no.10:54 0 '62. (MIRA 15:11) (Motortrucks—Maintenance and repair)



Three-phase choke with a solid magnetic circuit. Vest. elektroprom.
33 no.7:60-64 J1 '62. (MIRA 15:11)
(Electric coils) (Electric relays)



LETOKHOV, V.S.; VATSURA, V.V.; PUKHLIK, Yu.A.; FEDOTOV, D.I.; KOSOZHIKHIN, A.S.; ZHABOTINSKIY, M.Ye.; DASHEVSKAYA, Ye.I.; KOZLOV, A.N.; RUVINSKIY, L.G.; VASIN, V.A.; YURGENEV, L.S.; NOVOMIROVA, I.Z.; PETROVA, G.N.; SHCHEDROVITSKIY, S.S.; BELYAYEVA, A.A.; BRYKINA, L.I.; GLEBOV, V.M.; DRONOV, M.I.; KONQVALOV, M.D.; TARAPIN, V.N.; MIKHAYLOVSKIY, S.S.; ZHEGALIN, V.G.; ZHABIN, A.I.; GRIBOV, V.S.; MAL'KOV, A.P.; CHERNOV, V.N.; RATNOVSKIY, V.YA.; VOROB'YEVA, L.M.; MILOVANOVA, M.M.; ZARIPOV, M.F.; KULIKOVSKIY, L.F.; GONCHARSKIY, L.A.; TYAN KHAK SU

Inventions. Avtom. i prib. no.1:78-80 Ja-Mr '65. (MIRA 18:8)